# Dr. Venkat RAMANATHAN



## Principal Lecturer & Consultant, Software Systems Practice

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## Profile

Dr. Venkat Ramanathan has wide experience in the fields of IT and business process engineering. He has served industry and academia for over 26 years and has been instrumental in attracting businesses worth several millions through software consulting for clients across Asia, US, Europe and New Zealand.

At ISS, Dr. Venkat teaches and consults in emerging technologies and enterprise solutions. His research focus is on evolving decision models for business problems and more recently, he has been contributing to frontiers of knowledge by devising innovative architectural models for ICT.

## Educational Qualifications/Professional Certifications

- Fellow (PhD), NITIE, Bombay, India, 1990
- MS(Engg), IIT Madras, India, 1986
- Graduate Diploma in Operations Research, ORSI, India, 1985
- MSc, Madras Christian College, India, 1983
- BSc, University of Madras, India, 1981

## Academic and Professional Experience

- Evangelist, Institute of Systems Science, National University of Singapore, 2006 – current
- Solutions Architect, Telecom NZ, New Zealand, 2005-2006
- Member, ATA, Institute of Systems Science, National University of Singapore, 2005

- Associate, Institute of Systems Science, National University of Singapore, 2001-2005
- Project Specialist, Institute of Systems Science, National University of Singapore, 2000-2001
- Manager (Software), SG Securities Pte Ltd (Société Générale Bank), Singapore, 1998-1999
- Manager (MIS), Goldtron Telecommunications Pte Ltd, Singapore, 1996-1998
- Executive (IT&S), General Automotive Services Pte Ltd, Singapore, 1995-1996
- Associate Professor, NITIE, India, 1993 – 1995
- Assistant Professor, NITIE, India, 1989-1993
- Lecturer, NITIE, India, 1985-1989

## Membership and Professional Activities

### Memberships and Keynote Talks

- Member, IEEE
- Member, Singapore Computer Society
- Invited Speaker at Microsoft Tech Ed Curriculum Workshop, 2003

### Consultation and Executive Experience

- Cargo Community Network, Singapore, 2009-2011
- IRAS, Singapore, 2010
- Bank of New Zealand, 2005-2006
- Serial Systems Ltd & Purple Consulting Pte. Ltd., 1999
- SEMAC, Singapore, 1995-1996
- Johnson & Johnson Ltd, India, 1994
- Steel Authority of India Ltd (Bhilai & Rourkela Steel Plants), 1993
- Bombay Fire Brigade, India, 1992
- MELTRON Ltd, India, 1991-1992
- Hindustan Electro Graphics Ltd., Bhopal, India 1991
- Graham Firth Steel Pvt Ltd., India 1990-1991
- Indo Gulf Fertilizers Co. Ltd. 1990
- Hindustan Shipyard Ltd. (Off-Shore Platform Division), 1989
- Nuclear Power Corporation, India 1988-1989
- Army Ordnance Corps, Indian Army, 1988
- Hindustan Zinc Ltd. (Udaipur Mines), 1987
- Coal India Ltd, 1986-1987
- Air India Ltd, 1986
- Indian Oil Ltd (Air Turbine Fuelling Division), 1985
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## Research Interests

- Enterprise Computing
- Distributed Computing

- Service Oriented Architecture

## Selected Publications

### Journal Articles

- **Rule-based System Application for a Technical Problem in Inventory Issue**, Artificial Intelligence in Engineering, No. 14, 143-152, 2000.
- **Decision Support Tool for Recruitment and Selection**, with S. Venkatraman Temasek Journal, No.4, pp 26-33, 1996.
- **R&D Project Selection and Scheduling for Organisations Facing Product Obsolescence**, with S. Venkatraman, R&D Management, UK, Vol.25, No.1, pp 57-70, 1995.
- **Complexity Index as a Base for Decision Making whether to Introduce NC or Conventional Machines'**, with S. Ramani, International Journal of Production Economics, , Vol.23, pp 187-196, 1991.
- **Inventory Replenishment Policies for the Case of Decreasing Trend in Demand'**, with S. Ramani Engineering Costs and Production Economics, Vol.13, 169-174, 1988.

### Conference Papers

- **Integrating User Roles with Cloud Interfaces** International Conference on Software and Computer Applications, ICSCA 2012
- **Towards Unified User Management for Achieving Cloud Adoption.** Proceedings of 2012 International Conference on Industrial and Intelligent Information (ICIII-2012), pp. 91-101, 2012.
- **Transforming Web and Grid Services to Cloud Services – Can it be a Success?**, International Conference on Advances in Parallel and Distributed Computing, 2010
- **An Efficient Parallel Algorithm for Pattern Matching in the Presence of Errors**, International Conference on Automation, Robotics and Computer Vision, 1992.

### Book Chapters

- **"A Practical Cloud Services Implementation Framework for E-Businesses."** Research and Development in E-Business through Service-Oriented Solutions (2013): 167.
- **Cloud Adoption in Enterprises: Security Issues and Strategies."** Business Technologies in Contemporary Organizations: Adoption, Assimilation, and Institutionalization: Adoption, Assimilation, and Institutionalization (2015): 96.

## Courses

- Enterprise.NET I & II (Postgraduate)
- Enterprise Integration (Postgraduate)
- Programming (Postgraduate)

- Service Oriented Architecture (Short Course)

# What I Teach

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DATA SCIENCE

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